What is claimed is:

5 1. A compound of the formula (I)

$$X^1$$
 X^2
 X^3
 X^3
 X^4
 X^2
 X^3
 X^4
 X^2
 X^3
 X^4
 X^2
 X^3
 X^4
 X^4
 X^2
 X^4
 X^4

wherein

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 R^1

is H, C₁-C₆-alkyl, C₂-C₆-alkenyl, C₂-C₆-alkynyl, or C₆-C₁₄-aryl,

in which alkyl, alkenyl, alkynyl and aryl are unsubstituted or mono- to tri-substituted by a radical ${\sf R}^3$,

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 R^2

is C₁-C₆-alkyl, C₂-C₆-alkenyl, C₂-C₆-alkynyl, or C₆-C₁₄-aryl,

in which alkyl, alkenyl, alkynyl and aryl are unsubstituted or substituted n times by a radical R³, where n is an integer from 1 to 3, and

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 R^3

is -OH, =O, $-O-C_1-C_6$ -alkyl, $-O-C_2-C_6$ -alkenyl, $-O-C_6-C_{14}$ -aryl, $-NH-C_1-C_6$ -alkyl, $-NH-C_2-C_6$ -alkenyl, $-NH[-C(=O)-(C_1-C_6-alkyl)]$, $-NH[-C(=O)-(C_6-C_{14}-aryl)]$, $-NH_2$ or halogen, when R^1 and R^2 are each independently alkyl, alkenyl and alkynyl, and when R^1 and R^2 are each independently aryl, R^3 is -OH, $-O-C_1-C_6$ -alkyl, $-O-C_2-C_6$ -

alkenyl, $-O-C_6-C_{14}$ -aryl, $-NH-C_1-C_6$ -alkyl, $-NH-C_2-C_6$ -alkenyl, $-NH[-C(=O)-(C_1-C_6-alkyl)]$, $-NH[-C(=O)-(C_6-C_{14}-aryl)]$, $-NH_2$ or halogen, in which alkyl and alkenyl can be further substituted by -CN, -amide or -oxime functions, and aryl can be further substituted by -CN or -amide functions,

5 X^1 is CH_2 or O_1

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 X^2 , X^3 and X^4 independently of one another are O, NR^1 or S, wherein R^1 is as previously defined,

- or a stereoisomeric form of the compound of the formula (I) or a mixture of stereoisomers of a compound of the formula (I) in any ratio, or a physiologically tolerable salt of a compound of the formula (I) or a physiologically tolerable salt of a stereoisomeric form of a compound of the formula (I).
- 15 2. The compound according to claim 1 which is the compound of formula (II)

wherein R¹ R² and n are as previously defined.

3. The compound according to claim 2, which is the compound of formula (III)

- 4. A process for the preparation of a compound of the formula (I) according to claim 1 comprising:
 - (a) extracting parts of the plant Garcinia punctata or one of its variants and/or mutants,
 - (b) isolating and optionally purifying a compound of the formula (III),

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- (c) derivatizing the compound of the formula (III), if appropriate using a suitable reagent, to give a compound of the formula (I) and,
- (d) converting the compound of the formula (I), if appropriate, into a pharmacologically tolerable salt.

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- 5. The process according to claim 4 for the preparation of a compound of the formula (III) comprising:
 - (a) extracting parts of the plant Garcinia punctata or one of its variants and/or mutants,
 - (b) isolating and optionally purifying a compound of the formula (III), and

- (c) converting the compound of the formula (III), if appropriate, into a pharmacologically tolerable salt.
- 6. A compound as claimed in claim 1 for the use as a pharmaceutical.

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- 7. A method for the treatment or prophylaxis of bacterial infections comprising administering to a patient in need of said treatment an effective amount of a compound according to claim 1 or a pharmacologically tolerable salt thereof.
- 8. A pharmaceutical composition comprising a compound of claim 1 or a pharmacologically tolerable salt thereof and one or more physiologically acceptable excipients.
- A process for the production of a pharmaceutical composition as claimed in claim
 8, comprising bringing a compound of the formula I, or a pharmacologically tolerable salt thereof, into a suitable administration form using one or more physiologically suitable excipients.